



## RF EXPOSURE EVALUATION

Product Name	:	TeslaMic
Model Name	:	TSL42
Operating frequency	:	657MHz-663MHz
Numbers of Channel	:	13 channels for FM
Antenna Type	:	PCB Antenna
Antenna Gain	:	-10.1 dBi
Type of Modulation	:	FM
Power supply	:	Li-ion Battery: Rated Voltage: 3.6V Capacity: 2500mAh
Hardware Version	:	v1.0
Software Version	:	v1.0



#### Standard Requirement

According to § 15.247(i) and § 1.1307b(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the Commission's guidelines. See KDB 447498 D01 General RF Exposure Guidance v06, section 4. 3. 1.

The 1-g and 10-g SAR test exclusion thresholds for 100MHz to 6GHz at test separation distances  $\leq 50\text{mm}$  are determined by:

$$\left[ \frac{\text{max. power of channel, including tune-up tolerance, mW}}{\text{min. test separation distance, mm}} \right] \cdot \sqrt{f(\text{GHz})} \leq 3.0$$

The max. average power of channel, including tune-up tolerance(mW) is 0.683mW 663MHz (With Tune-up tolerance), The min. test separation distance (mm) is 5 mm, So,  $\left[ \frac{\text{max. power of channel, including tune-up tolerance, mW}}{\text{min. test separation distance, mm}} \right] \cdot \sqrt{f(\text{GHz})} = 0.111195 < 3.0$  (With Tune-up tolerance). Therefore, standalone SAR measurements are not required for both head and body.

Signature

A handwritten signature in black ink, appearing to read 'Ronnie Liu'.

Ronnie Liu

EMC Manager

Date: 2022-09-30